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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,632	12/05/2003	Alfredo Cardenas	H0004825-1050 9095	
75	90 '07/13/2005		EXAM	INER
Honeywell International, Inc.			KERSHTEYN, IGOR	
Law Dept. AB2 P.O. Box 2245			ART UNIT	PAPER NUMBER
Morristown, NJ 07962-9806			3745	
		DATE MAILED: 07/13/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

A)					
	Application No.	Applicant(s)			
Office Action Common to	10/728,632	CARDENAS ET AL.			
Office Action Summary	Examiner	Art Unit			
TI MAILING BATE (4)	Igor Kershteyn	3745			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D· (35 U.S.C. § 133).			
Status		• *			
<ul> <li>1) □ Responsive to communication(s) filed on 31 Ma</li> <li>2a) □ This action is FINAL. 2b) □ This</li> <li>3) □ Since this application is in condition for alloware closed in accordance with the practice under E</li> </ul>	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-3,5-16,18-23,25-30 and 33-40 is/are 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 1-3,8-16,18-30 and 33-40 is/are allow 6) ☐ Claim(s) 5-7 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or	vn from consideration. ed.				
Application Papers	•				
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on <u>05 December 2003</u> is/ar Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Ex	re: a) $\square$ accepted or b) $\square$ object drawing(s) be held in abeyance. See on is required if the drawing(s) is object.	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign  a) All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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### **DETAILED ACTION**

## Response to Arguments

Applicant's arguments filed 05/31/2005 have been fully considered but they are not persuasive.

Claims 1-3, 5-16, 18-23, 25-30, and 33-40 are now pending. Claims 1-3, 5, 8, 10, 11, 15, 18, 20-23, 25, 26, and 30 are amended. Claims 4, 17, 24, 31, and 32 are cancelled. New claims 33-40 are added.

Applicant's arguments regarding claims 1, 20, 23, 25-27 as amended have been carefully considered and the Examiner agreed to withdraw the rejections to these claims set forth in the first Office action.

With regard rejections set forth in the first Office action to claim 5 as anticipated by Ball (3,671,137), Applicant, in page 12, lines 8-9, states, that "Claim 5 has been amended to further define an axial distribution of grooves on a shaft.". The Examiner would like to point out that axial groves 27 on the shaft 25 are clearly shown by Ball in figure 2.

Futher, the Applicant states that "Ball does not disclose any concentrically situated grooves and thus does not anticipate the invention defined in claim 5 or its dependent claims 6 and 7."

Regarding the term "concentric", the Merriam-Webster Dictionary defines: "1: having a common center < concentric circles>, 2: having a common axis: coaxial",

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which allows the Examiner to conclude that subject matter of claim 5 still stands anticipated by Ball.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Ball (3,671,137).

In figure 2, Ball teaches an apparatus for balancing a pressure differential across a bearing comprising an impeller 28 on a shaft 25, the impeller 28 having an upstream side and a downstream side, a bearing housing 59 on the downstream side of the impeller 28, a plurality of annular grooves (not numbered) on the downstream side of the impeller 28, the plurality of annular grooves concentrically situated in relation to the shaft 28, the shaft 28 having a cylindrical outer surface, and a plurality of grooves 27 on the shaft 25 axially situated in relation to the shaft 25.

### Allowable Subject Matter

Claims 1-3, 8-16, 18-24, 25-30, and 33-40 are allowed.

### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

### Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Kershteyn whose telephone number is (571)272-4817. The examiner can be reached on Monday-Friday from 8:00 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look, can be reached on **(571)272-4820**. The fax number is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is

IK

July 8, 2005

(703) 308 0861.

Igor Kershteyn Patent examiner. Art Unit 3745

EDWARD K. LOOK
SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3700